hp photosmart 730 series digital camera

user's manual

invent

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Chapter 1: Getting started

Congratulations on your purchase of this digital camera! This camera has many features to enhance your picture-taking experience, including HP Instant Share™, direct printing capability, manual and automatic controls, on-camera Help, and an optional camera dock.

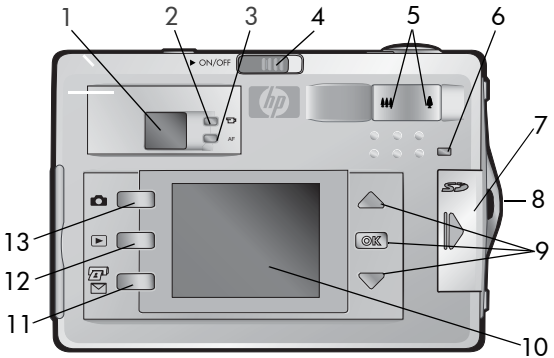
With HP Instant Share, you can easily select pictures on your camera to print or e-mail automatically the next time you connect the camera to your computer or printer. Your friends and family can easily receive and view your pictures in e-mail without being burdened by large file attachments. Or you can use the direct printing capability to any HP Photosmart printer or other select HP printer without ever connecting to your computer. What a great way to keep others close as you capture precious memories!

To further enhance your experience, you may purchase an HP Photosmart 8886 camera dock. The camera dock allows you to easily download images to a computer, send images to a printer or television, and recharge the camera batteries. It also provides a convenient home for your camera.

NOTE A dock insert is included in your camera box. Please do not discard it, because it enables your camera to use the HP 8886 camera dock. See the manual that comes with the camera dock for instructions on how to attach the dock insert to the camera dock.

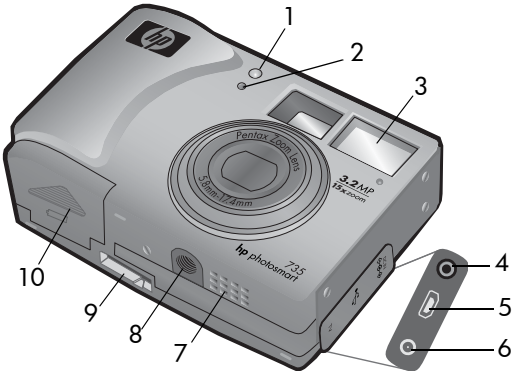
Camera parts

NOTE Refer to the pages in parentheses after the part names for more information about those parts.



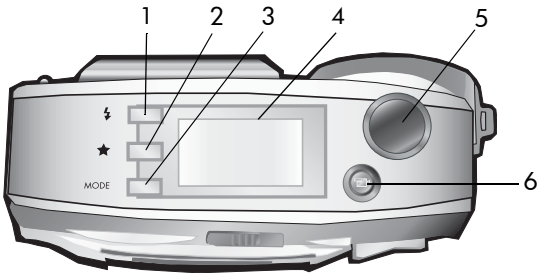
#	Name	Description
1	Optical Viewfinder (page 25)	Allows you to frame the subject of the picture or video clip
2	Video viewfinder light (red)	**Solid**—camera is recording video **Blinking**—**Self-Timer** is activated or there is an error (see Image Display for message)
3	**AF** Auto Focus viewfinder light (green)	**Solid**—camera is ready to take a picture (focus and exposure are locked) **Blinking**—camera is unable to focus, long exposure (hold steady), or there is an error (see Image Display for message)
4	▶ ON/OFF switch (page 18)	Turns the camera power on and off

#	Name	Description
5	Zoom lever: Zoom Out Zoom In (page 28)	Zooms out the lens to the wide angle position, and zooms in the lens to the telephoto position
6	Memory/USB light (page 18)	**Solid orange**—USB is connected **Blinking orange**—camera is either: starting up, charging the battery, sending/receiving USB, or reading from or writing to the memory card
7	Memory card door (page 17)	Allows access to insert or remove the memory card
8	Wrist strap mount (page 16)	Allows you to attach a wrist strap
9	arrow buttons and OK button (page 37, 47)	—allows you to move through menus and images on the Image Display OK—allows you to display the **Capture** and **Playback** menus and to select menu options
10	Image Display (page 25)	Allows you to frame pictures and video clips using **Live View** and review them afterward in **Playback**, and to view all the menus
11	/ **HP Instant Share** button (page 54)	Turns the **Share** menu on and off on the Image Display
12	**Playback** button (page 45)	Turns **Playback** on and off on the Image Display
13	**Live View** button (page 25)	Turns **Live View** on and off on the Image Display



#	Name	Description
1	Video/Self-Timer light (page 35)	**Solid red**—camera is recording video **Blinking red**—**Self-Timer** is activated
2	Microphone (pages 32, 51)	Records audio clips
3	Flash (page 30)	Provides additional light to improve picture-taking
4	Power adapter connector (page 102)	Provides connection for optional HP AC power adapter
5	USB connector (pages 61, 63)	Provides connection for USB cable to a computer or printer
6	TV connector (page 65)	Provides connection for optional Audio/Video cable to a TV
7	Speaker	Plays camera sounds and audio clips
8	Tripod mount	Allows you to mount the camera to a tripod

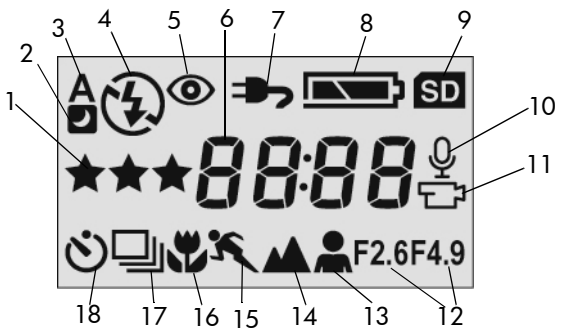
#	Name	Description
9	Camera dock connector (page 102)	Provides connection to the optional HP 8886 camera dock
10	Battery door (page 16)	Allows access to insert and remove the batteries



#	Name	Description
1	**Flash** button (page 30)	Selects the flash setting
2	**Quality** button (page 31)	Changes image quality from **Good** to **Better** to **Best**
3	**MODE** button (page 33)	Changes the capture mode to **Self-Timer**, **Burst**, **Macro**, or one of five different exposure settings.
4	Status LCD (page 14)	Displays camera settings and operating status

#	Name	Description
5	**Shutter** button (page 23)	Takes a picture. Push halfway down to lock focus and exposure, then all the way down to take picture. Hold down after picture is taken to record audio.
6	**Video** button (page 24)	Records a video clip; press once to start and press again to stop

Status LCD



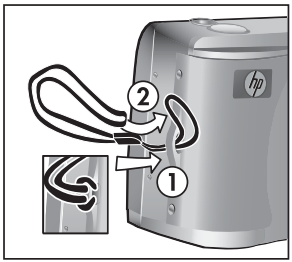
#	Icon	Indicates
1	★★★	Image quality selection
2		Night mode flash setting is active
3	A	Auto flash is active

#	Icon	Indicates
4		Flash On is active or Flash Off is active
5		Red-eye Reduction Flash is active
6		Number of still images remaining or time remaining (for video and audio clips)
7		AC adapter is providing power
8		Battery condition
9		Memory card is in the camera
10		Audio is recording
11		Video is recording
12	2.6 / 4.9	F-stop is set to 2.6 or 4.9
13		Portrait mode is active
14		Landscape mode is active
15		Action mode is active
16		Macro setting is active
17		Burst setting is active
18		Self timer setting is active

Setup

Attaching the wrist strap

Attach the wrist strap to the wrist strap mount on the side of the camera as shown.

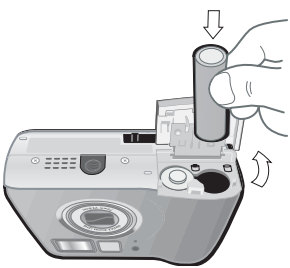


Installing the batteries

1 Open the battery door on the bottom of the camera.

2 Insert the batteries as indicated inside the door.

3 Close the battery door.



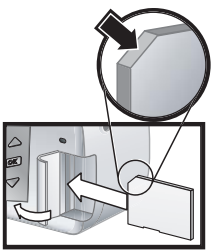
NOTE For more information about batteries, see Managing batteries on page 99.

NOTE If you have rechargeable batteries, you can use the optional HP Photosmart 8886 camera dock or the optional HP AC power adapter to recharge batteries in the camera. For more information about these optional accessories, see Purchasing camera accessories on page 102.

Installing a memory card (optional)

Your camera contains 16 MB of internal memory that allows you to store images and video clips in your camera. However, you can use an optional memory card (purchased separately) instead to store images and video clips. For information on the memory cards that are supported with your camera, see Purchasing camera accessories on page 102.

NOTE If a memory card is installed in the camera, all new images and video clips will be stored only on the memory card. The internal memory and its file system are not available when a memory card is installed in the camera.

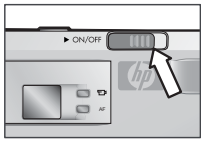


1. With the camera turned off and the back of the camera facing you, open the memory card door by sliding the door to the right.
2. Insert the memory card, making sure that it clicks into place.
3. Close the memory card door.

To remove a memory card, turn the camera off and open the memory card door, then push the memory card in, and it will spring outward from the slot.

Turning on power

Turn the camera on by sliding the ▶ ON/OFF switch to the right and then releasing it. The Memory/USB light will blink and then turn off when the camera is ready.



Restoring previous settings

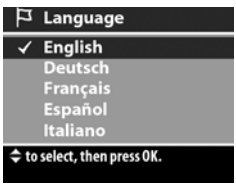
Some of the camera settings do not remain set when the camera is turned off. To restore all camera settings that were in effect when the camera was last turned off, hold down the OK button when you turn on the camera.

Choosing the language

The first time you turn the camera on, the following screen appears and prompts you to choose a language.

1 Scroll to the language that you want by using the ▲ ▼ buttons.

2 Press the OK button to select the highlighted language.



NOTE If you need to go back and change this setting later, you can do this in the Setup menu. See Chapter 6: Using the setup menu on page 67.

Setting the date and time

The camera has a clock that records the date and time at which you take each picture. This time stamp does not appear in the image itself, but is recorded in the image properties, which you can see when viewing the image on the computer.

The first time you turn the camera on, the following screen appears after you choose the language.

1. Press the OK button repeatedly until the preferred date format appears, and then press the ▼ button to highlight the date.
2. Press OK to select the first value, and then use the ▲ ▼ buttons to change it. Press OK to confirm. Set the remaining values in the same way (M = Month, D = Day, Y = Year).
3. Press the ▼ button to highlight the time format, and then press OK if you want to change it.
4. Press the ▼ button to highlight the time. Set the time values in the same way you set the date values in step 2.
5. When finished setting the date and time, press the ▼ button to highlight Exit, and then press OK.

NOTE If you need to go back and change this setting later, you can do this in the Setup menu. See Chapter 6: Using the setup menu on page 67.

Installing the software

The camera software allows you to unload images from the camera, view them, print them, and e-mail them. It also allows you to configure the Share menu on the camera.

See Chapter 4: Using hp instant share on page 53 for information about configuring the Share menu on the camera, and Chapter 5: Unloading, printing, and displaying images on page 61 for information about connecting the camera to a computer or printer.

NOTE A copy of this User's Manual is located on the HP Photo & Imaging software CD. Look in the \docs\Readme file on the CD to see where the manual in your language is located.

Windows

NOTE For the HP Instant Share component of the HP Photo & Imaging software to function properly on your Windows computer, you must have installed at least Internet Explorer 5.01 on Windows 2000 or XP, or Internet Explorer 5.01 Service Pack 2 on Windows 98, 98 SE, or Me.

1. Close all programs and temporarily disable any virus protection software running on your computer.
2. Insert the HP Photo & Imaging software CD into the CD drive of your computer. The installation window automatically appears.

NOTE If the installation window does not appear, click Start, and then click Run. Type X:\Setup.exe, where X is the letter of your CD drive.

3. Click Next, and then follow the on-screen instructions to install the software.

Your Windows CD may also include bonus software from other manufacturers. To install any bonus software:

1 Click Start, click Run, and in the Open box, type X:\Bonus\setup.exe (where X is the letter of your CD drive).
2 Click OK, and then follow the on-screen instructions to install the bonus software.

Macintosh

1 Close all programs and temporarily disable any virus protection software running on your computer.
2 Insert the HP Photo & Imaging software CD into the CD drive of your computer.
3 Double-click the CD icon on the computer desktop.
4 Double-click the installer icon, and then follow the on-screen instructions to install the software.

NOTE Before you can unload images from the camera to a Macintosh computer, you must first change the USB Configuration setting to Disk Drive in the Setup menu on the camera. See Chapter 6: Using the setup menu on page 67, and then see USB configuration on page 69.

Your Macintosh CD may also include bonus software from other manufacturers. To install any bonus software:

1 Double-click the Bonus folder icon.
2 Double-click the installer icon for the bonus software.
3 Follow the on-screen instructions to install the software.

Chapter 2: Taking pictures and recording video clips

Taking still pictures

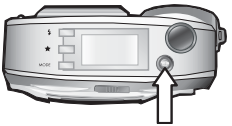
You can take a picture almost any time the camera is on, regardless of what is being shown on the Image Display.

1. Frame the subject for your picture in the viewfinder.
2. Hold the camera steady and press the Shutter button halfway down. The camera measures and then locks the focus and exposure. This Focus Lock feature allows you to focus on a subject that is not in the center of the picture, or to capture action shots more quickly by pre-focusing in the area where the action will occur.
3. Press the Shutter button all the way down to take the picture. The image appears for several seconds on the Image Display for instant review. During this time, the image is saved to memory, unless you choose to delete it by pressing the OK button.

In Step 2 above, one (or both) of the Viewfinder lights may start blinking. For an explanation of this, see the description for Viewfinder lights on page 10.

NOTE To achieve best focus in low light conditions, secure the camera to a tripod and make sure the focus area has sufficient contrast.

Recording video clips



1 Frame the subject for your video in the viewfinder.

2 Press and release the Video button to start recording video. Both the red viewfinder light and the Video/Self-Timer light will turn on solid. A video icon and a Time Remaining counter appear in the Status LCD and at the top of the Image Display (if it is on).

NOTE If you have the Self-Timer mode on (see Using self-timer mode on page 35), the camera will start recording 10 seconds after you press the button.

3 To stop recording, press the button again.

The length of a video clip is limited only by the amount of available memory. The camera calculates the Time Remaining (mm:ss) counter based on the amount of available memory (internal or memory card). The video ends when Time Remaining reaches zero or the button is pressed again.

After recording has stopped, the last frame of the video clip remains on the Image Display for instant review. During this time, the video clip is saved to memory unless you choose to delete it by pressing the OK button.

NOTE Audio is automatically recorded with video clips.

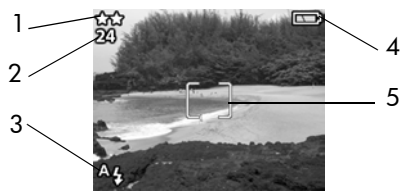
Using live view

You can use the Image Display as a viewfinder to see a more accurate view of what your picture or video will look like. This is useful for close-up pictures and for instances in which framing your subject precisely is important.

NOTE Using the Image Display consumes a lot of battery power. To preserve batteries, use the viewfinder instead.

To turn on Live View, press the Live View button.

The following table describes the information that is displayed in the Live View screen when the camera settings are at their default values.



#	Icon	Description
1	★★	Current image quality setting (1, 2, or 3 stars). If you press the Video button, the video icon ( ) appears in this location.
2	24	Remaining pictures count (depends on how much space remains in memory). If you press the Video button, the time remaining for a video clip appears here.
3	A	Auto flash icon will blink when the flash is charging.

#	Icon	Description
4		Battery level (actual icon shown depends on the state of your camera batteries; see Managing batteries on page 99).
5		Focus brackets (see the next section, Using the focus brackets).

NOTE If you change other camera settings, icons for those settings will also be displayed across the top and bottom of the Live View screen. For more information, see Advanced capture settings on page 37.

Using the focus brackets

The two brackets in the middle of the Live View screen show the focus region for the picture you are taking. When you press the Shutter button halfway down, the camera uses this focus region to measure and then lock the focus using this region. This is called Focus Lock.

The focus brackets turn green in the Live View screen and the AF viewfinder light turns on solid green when the image is in focus and the camera can lock the focus. However, the focus brackets turn red and the AF viewfinder light blinks green when the camera is unable to focus.

If the focus brackets turn red and the AF viewfinder light blinks, release the Shutter button, re-frame the subject for your picture, and then press the Shutter button halfway down again. If the camera still cannot focus after several tries, the lighting may be too low, or there may not be enough contrast in the focus region. Try using Focus Lock to focus on an object about the same distance away but in a higher-contrast region, then point the camera at the object you were originally trying to photograph.

If the focus brackets turn red, the AF viewfinder light blinks, and the Macro icon is blinking on the Image Display, either the camera is set to Macro focus but detects the focus is further away than the macro (close-up) range, or the camera is set to Normal focus but detects the focus is closer than the normal range. For more information on the focus settings and their respective distance ranges, see Using macro mode on page 36.

NOTE When set to Macro focus, the camera will not take a picture if it cannot find focus. However, when set to Normal focus (the default), the camera will still take a picture if it cannot find focus.

Status screen

When Live View is turned on and you change the flash, quality, or mode settings, a status screen will appear briefly on the Image Display, showing current camera settings, battery level, and the number of pictures remaining.

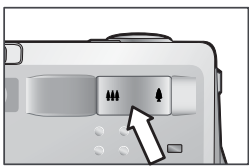
Using zoom

NOTE Zoom does not work while recording video clips.

Optical zoom

Optical zoom works like the zoom on a traditional film camera, with physical lens elements moving inside the camera to make the object of your picture appear closer.

Press the Zoom Out and Zoom In buttons to move the lens between wide angle and telephoto positions (1x to 3x).



Digital zoom

Unlike optical zoom, digital zoom uses no moving lens parts. The camera essentially crops the image, then uses interpolation to enlarge the image to give the appearance of the object in the picture being from 1x to 5x closer.

1. Press the Zoom in button to optically zoom in to the maximum level, then release the button.
2. Press the Zoom in button again and hold it until you reach the desired size in the Image Display. The picture enlarges in the Image Display (as do the focus brackets). The amount of digital zoom appears at the bottom of the Image Display.

3. Press the Shutter button to take the picture.

To turn digital zoom off and return to optical zoom, press the Zoom Out button until digital zooming stops. Release the button, and then press the button again.

NOTE Digital zoom reduces the resolution of an image, so your picture will tend to be more pixilated than the same image taken with an optical zoom. If you just intend to e-mail an image or post it to a website, this loss of resolution will not be noticeable, but in situations where the highest quality counts (such as printing), skip the digital zoom and use the cropping tools in your image editing software to zero in on your subject.

Using the flash

NOTE The flash does not work while recording video clips.

To change the flash setting, press the **Flash** button on the top of the camera until the desired setting appears on the Status LCD. If **Live View** is on, the icon also appears in the Image Display.

Icon	Setting	Description
	Auto	The camera measures the available light and fires the flash if necessary. This is the default setting.
	Red-eye Reduction	The camera measures light and fires the flash with red-eye reduction if necessary.
	Flash On	The camera always fires the flash. If the light is behind your subject, use this setting to increase the light on the front of your subject. This is called "fill-flash".
	Flash Off	The camera will not fire the flash. Use this setting when you do not want a flash (such as with distant objects). This may result in long exposures that will require using a tripod.
	Night	The camera fires the flash to illuminate objects in the foreground. It then continues to expose as if the flash had not fired to gather the background. This setting only works when taking pictures of still objects. Hold the camera steady to prevent blurry images. For best results, use a tripod.

NOTE The camera remains in the current flash setting until you change it or turn off the camera.

Changing the image quality

Image quality controls the resolution and compression settings that will be used to capture images. At higher settings, there will be greater detail visible in the images, but the file size of an image will be larger, and thus fewer pictures will fit in the internal memory or on the memory card.

To change the image quality setting, press the Quality ★ button until the desired setting appears on the Status LCD. If Live View is on, the icon also appears in the Image Display.

Setting	Icon	Description and capacity
Good	★	This is the most memory-efficient setting, ideal for images you want to e-mail or post to the Internet. At this setting, internal camera memory holds about 125 images, and a 16 MB memory card holds about 117 images.
Better	★★	This setting produces high-quality images and requires less memory than Best setting. This is recommended for printing images up to 20 by 25 cm (8 by 10 inches). This is the default quality setting. At this setting, internal camera memory holds about 19 images, and a 16 MB memory card holds about 18 images.
Best	★★★	This setting produces the highest-quality images and uses the most memory. This is recommended if you plan to enlarge images, or print images to a size larger than 20 by 25 cm (8 by 10 inches). At this setting, internal camera memory and a 16 MB memory card holds about 12 images.

Recording audio

NOTE This section applies only to still pictures. Audio is automatically recorded with video clips.

There are two ways to record an audio clip that will attach to a still picture.

- Record the audio while you are taking the picture (explained in this section).
- Add an audio annotation to the picture later (or change the audio that was captured when the picture was taken). For details on how to do this, see Recording and deleting audio clips on page 51.

1. Press the Shutter button all the way down to take the picture (audio starts recording automatically).
2. Continue to hold the Shutter button down to record the audio clip. If you let up on the Shutter button within two seconds of taking the picture, then the audio clip is discarded. If you keep holding the Shutter button down, the audio will continue recording as long as there is enough memory available.
3. Audio recording stops either when you release the Shutter button, or the memory card is full, whichever comes first.

To review an audio clip, press the Playback ▶ button on the camera and use the arrow buttons to navigate to the image containing the clip you want to hear.

To record a new audio clip, or to delete an audio clip, use the Record Audio section in the Playback menu See Using the playback menu on page 47.

Changing capture modes

The Mode button on the top of the camera sets the camera to one of nine different capture modes. Each time you press the Mode button, the camera changes to the next capture mode. The sequence for the different settings is: Normal, Self-Timer, Burst, Macro, Action, Landscape, Portrait, F2.6, F4.9, and then repeat.

NOTE These settings do not have any effect on recording video clips unless specifically noted otherwise.

Each time you change the capture mode, an icon representing that capture mode appears in the Status LCD. If Live View is on, the icon also appears in the Image Display. The following table describes these different icons.

Icon	Setting	Description
None	Normal	Camera automatically selects focus, aperture and shutter speed. This is the default setting when the camera is first turned on.
	Self-Timer	Camera waits 10 seconds after the Video button or Shutter button is pressed to take a video clip or a picture. See Using self-timer mode on page 35.
	Burst	Camera quickly takes multiple still pictures (as long as the Shutter button is held down). See Using burst mode on page 36.
	Macro	Camera takes extreme close-up pictures. See Using macro mode on page 36.

Icon	Setting	Description
	Action	Camera biases toward faster shutter speeds and higher ISO speeds to stop action.
	Landscape	Camera biases toward smaller apertures and lower ISO speeds for better depth of focus and quality.
	Portrait	Camera biases toward wider apertures to blur the background and uses lower contrast for professional-looking portraits.
F2.6	Aperture Priority	Sets the camera aperture to F2.6 for a shallow depth of field (background is blurred). All other camera settings are automatic.
F4.9	Aperture Priority	Sets the camera aperture to F4.9 for a medium depth of field (background is slightly blurred). All other camera settings are automatic.

Using self-timer mode

1 Secure the camera to a tripod or set it on a stable surface.

2 Press the Mode button until the Self-Timer icon appears in the Status LCD. If Live View is on, the icon also appears in the Image Display.

3 Frame the subject in the viewfinder.

4 The next steps depend on whether you are capturing a still picture or a video clip:

When capturing:	Procedure
Still picture	1 Press the Shutter button halfway down for Focus Lock. The camera measures and then locks the focus and exposure. The camera will hold these settings until it takes the picture. 2 Press the Shutter button all the way down. A 10-second countdown appears on the Status LCD. If you immediately press the Shutter button all the way down without using Focus Lock, the camera will lock focus and exposure just before the end of the 10-second countdown. This is useful when one or more subjects will be entering the picture during the 10-second countdown period. You cannot record audio when using the Self-Timer, but you can add an audio clip later (see page 51).
Video clip	1 To start recording, press the Video button and then release it. A 10-second countdown appears on the Status LCD. 2 To stop recording the video clip, press the Video button again.

NOTE The Video/Self-Timer light on the front of the camera blinks before the camera takes the picture or video clip.

Using burst mode

Burst is used to take multiple pictures in a row as quickly as the camera can.

1. Press the Mode button until the Burst icon appears on the Status LCD. If Live View is on, the icon also appears in the Image Display.
2. Frame the subject and press the Shutter button all the way down and hold it.
3. Flash is disabled and the camera takes pictures as quickly as possible until the memory is full or the Shutter button is released.

Using macro mode

You can use the Macro focus setting for taking close-up pictures (from 0.1 m (4 inches) to 0.5 m (19.7 inches).

1. Press the Mode button until the Macro icon appears on the Status LCD. If Live View is on, the icon also appears in the Image Display.
2. Use the Image Display to frame the subject of the picture (the optical viewfinder will not give you an accurate representation of a picture taken in macro mode).
3. Press the Shutter button all the way down to take the picture.

Advanced capture settings

The Capture menu allows you to adjust various camera settings that affect the qualities of the images and video clips you capture with your camera. From this menu you can also access the Setup menu to set a number of preferences on the camera.

To display the Capture menu:

1 Press the OK button at any time when the Image Display is turned off, or when Live View is turned on in the Image Display.

Screen one

Screen two

2 Use the ▲ ▼ buttons to scroll through the Capture menu options.

3 Press the OK button to select a highlighted option and display its sub-menu.

4 Within a sub-menu, use the ▲ ▼ buttons and the OK button to change the setting for the Capture menu option.

5 To exit the Capture menu, highlight the ⮌ EXIT CAPTURE MENU option and press the OK button.

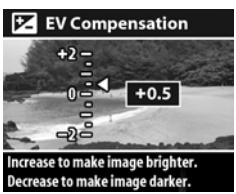
Each of the Capture menu settings is explained in detail on the following pages.

EV compensation

In difficult lighting conditions, you can use the EV (Exposure Value) Compensation setting to override the automatic exposure setting that the camera makes.

EV Compensation is useful in backlit scenes involving a person, or in scenes that contain many light objects (like a white house in the snow) or many dark objects (like a black cat on a dark background). Scenes containing many light objects or many dark objects could turn out gray without the use of EV Compensation. For a scene with many light objects, increase the EV Compensation to a positive number to produce a brighter result. For a scene with many dark objects, decrease the EV Compensation to darken the scene to be closer to black.

1. In the Capture menu, select EV Compensation.
2. In the EV Compensation menu, use the ▲ ▼ buttons to change the EV setting in 0.5 steps from -2.0 to +2.0. The new setting is applied to the Live View screen behind the menu, so you should be able to see the effect the setting will have on the picture.



3. Press OK to save the setting and return to the Capture menu.

If the setting is anything other than the default setting of 0 (zero), the number value will appear at the top of the Live View screen.

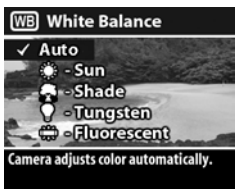
The new setting remains in effect until it is changed again or until the camera is turned off.

White balance

Different kinds of lighting conditions cast different colors. For example, sunlight is more blue, while indoor tungsten light is more yellow. Scenes dominated by a single color may require an adjustment of the white balance setting to help the camera reproduce colors more accurately and ensure that whites appear white in the final picture. You can also adjust the white balance to produce creative effects. Using the Sun or Tungsten settings can produce a warmer look to the picture, and the Shade setting can make a sunset picture look more orange.

1 In the Capture menu, select White Balance.

2 In the White Balance menu, use the ▲ ▼ buttons to select a setting. The new setting is applied to the Live View screen behind the menu, so you should be able to see the effect the setting will have on the picture.



3 Press OK to save the setting and return to the Capture menu.

The following table helps explain the settings in more detail.

Icon	Setting	Description
None	Auto	Camera automatically identifies and corrects for scene illuminance. This is the default setting, and the white balance is reset to Auto when you turn the camera off.
☀	Sun	Camera balances color assuming it is outdoors under sun or bright cloudy conditions.

Icon	Setting	Description
	Shade	Camera balances color assuming it is outdoors in shade, twilight, or dark cloudy conditions.
	Tungsten	Camera balances color assuming incandescent or halogen lighting (typically found in homes).
	Fluorescent	Camera balances color assuming fluorescent lighting.

If the setting is anything other than the default setting of Auto, the icon for the setting (in the table above) will appear at the top of the Live View screen.

The new setting remains in effect until it is changed again or until the camera is turned off.

ISO speed

The ISO Speed setting adjusts the sensitivity of the camera to light. The Auto setting works the best.

NOTE If the camera is in Action, Landscape, Portrait, F2.6 or F4.9 mode, the ISO speed will always be set to Auto and the ISO option in the Capture menu will be grayed out.

Lower ISO speeds will capture the best quality pictures with the least amount of noise or grain. If taking a picture in low light conditions without a flash at ISO 100, you may want to use a tripod.

Higher ISO speeds allow higher shutter speeds and thus can be used when taking pictures in dark areas without a flash, or when taking pictures of fast moving objects and you want to stop action. Higher ISO speeds produce pictures with more grain and thus lower quality.

1 In the Capture menu, select ISO Speed.

2 In the ISO Speed menu, use the ▲ ▼ buttons to select a setting.

3 Press OK to save the setting and return to the Capture menu.

If the setting is anything other than the default setting of Auto, the number value for the setting will appear at the top of the Live View screen.

The new setting remains in effect until it is changed again or until the camera is turned off.

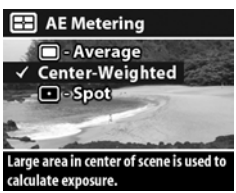
AE metering

This setting allows you to specify which region of a scene the camera will use to calculate the exposure.

1 In the Capture menu, select AE Metering.

2 In the AE Metering menu, use the ▲ ▼ buttons to select a setting.

3 Press OK to save the setting and return to the Capture menu.



The following table helps explain the settings in more detail.

Icon	Setting	Description
	Average	Camera uses the entire scene region to measure and calculate exposure. Use this setting when you want everything in the picture to be used equally when calculating exposure.
None	Center-Weighted	Camera uses the center of the scene region to measure and calculate exposure. This setting is good to use when the subject is in the center of the frame. Exposure will be based more on the subject than on its surroundings. This is the default setting.
	Spot	Camera uses a small area in the center of the scene region to measure and calculate exposure. This can be useful in backlit scenes or when the subject is very dark or light compared to the rest of the scene. When using this setting, press the Shutter button halfway down to lock the exposure on the spot in the center, then recompose the scene as desired.

If the new setting is anything other than the default setting of Center-Weighted, the icon for the setting (in the table above) will appear at the top of the Live View screen.

The new setting remains in effect until it is changed again or until the camera is turned off.

Saturation

This setting allows you to determine how saturated the colors will be in your pictures.

1 In the Capture menu, select Saturation.

2 In the Saturation menu, use the ▲ ▼ buttons to select a setting. The new setting is applied to the Live View screen behind the menu, so you should be able to see the effect the setting will have on the picture.

3 Press OK to save the setting and return to the Capture menu.

The following table helps explain the settings in more detail.

Icon	Setting	Description
	High	Emphasizes more vivid colors in a scene. Outdoor landscape photography can use high saturation to create skies that are more blue, or sunsets that are more orange.
None	Medium	Colors will be normally saturated. This is the default setting.
	Low	Mutes colors to achieve a faded photographic look. When taking portrait pictures, low saturation can give a softer, more "natural" look to the subject.

If the new setting is anything other than the default setting of Medium, the icon for the setting (in the table above) will appear at the bottom of the Live View screen.

The new setting remains in effect (even if you turn the camera off) until it is changed again.

Sharpness

This option allows you to set how sharp the edges will be in your pictures.

1 In the Capture menu, select Sharpness.

2 In the Sharpness menu, use the ▲ ▼ buttons to select a setting. The new setting is applied to the Live View screen behind the menu, so you may be able to see the effect the setting will have on the picture.

3 Press OK to save the setting and return to the Capture menu.

The following table helps explain the settings in more detail.

Icon	Setting	Description
◈	High	The edges in your image will be more pronounced.
None	Medium	The edges in your image will have normal sharpness.
◈	Low	The edges in your image will be softer.

If the new setting is anything other than the default setting of Medium, the icon for the setting (in the table above) will appear at the bottom of the Live View screen.

The new setting remains in effect (even if you turn the camera off) until it is changed again.

Setup

For information about the Setup menu, see Chapter 6: Using the setup menu on page 67.

Chapter 3: Reviewing images and video clips

You can use the Playback feature to review the images and video clips in your camera. In addition, the Playback menu allows you to delete images or video clips, rotate or magnify still images, and add, change, or delete audio clips.

Using playback

1 Press the Playback ▶ button to activate Playback mode. The most recently taken or viewed image or video clip appears on the Image Display.

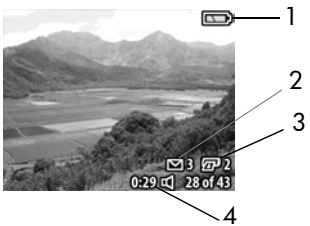
2 Use the ▲ ▼ buttons to scroll through your images and video clips. Press and hold the ▲ ▼ buttons to scroll automatically.

- Still images that have audio clips attached to them will automatically play the audio clip. To replay the audio clip, press the ▲ button. Pressing the ▼ button before, during, or after audio playback skips to the next image.
- Video clips will play automatically after a few seconds. To replay the video clip, press the ▲ button. Pressing the ▼ button before, during, or after video playback skips to the next image.

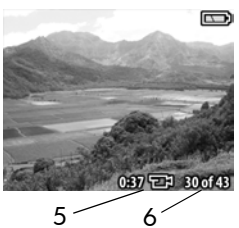
3 To turn the Image Display off after reviewing your images and video clips, press the Playback ▶ button again.

During **Playback**, some information about each image or video clip is also displayed. The following table describes the information.

Still image



Video clip



#	Icon	Description
1	or	• Battery level (actual icon shown depends on the state of your camera batteries). • Camera is using AC power from the optional HP 8886 camera dock or HP AC power adapter.
2		Indicates this image has been marked for e-mailing using **HP Instant Share** (this example shows that it will be e-mailed to 3 destinations).
3		Indicates this image has been marked for printing using **HP Instant Share** (this example shows that 2 copies will be printed).
4		Indicates this image has an audio clip and the clip is 29 seconds long.
5		Indicates this is a video clip that is 37 seconds long.
6	30 of 43	Shows the current image number from the total number of images taken.

NOTE Other icons besides the e-mail or print icons may appear, depending on what other destinations have been selected for that image using **HP Instant Share.**

Using the playback menu

The Playback menu allows you to view additional information about each image, rotate still images, delete images, magnify still images, and add, change, or delete audio clips. From this menu you can also access the Setup menu to set a number of preferences on the camera.

To use the Playback menu:

1. Press the Playback button to activate Playback, then use the ▲▼ buttons to move to the image or video clip you want.
2. Press the OK button to display the Playback menu.
3. Use the ▲▼ buttons to highlight the menu options on the left of the Image Display. In order to let you see more of the image you are reviewing, the label of each menu option only appears when you highlight the menu option.

NOTE In the Playback menu, an additional line of information about the image appears in the lower-right corner of the Image Display. It includes the date the picture was taken, the quality setting used, and the digital zoom setting used (if any).

4. To select a highlighted menu option, press OK. Each of the Playback menu options are explained later in this section.
5. To exit the Playback menu and return to viewing images in Playback, highlight the Exit Playback Menu option and press OK.

Viewing thumbnail images

This Playback menu option lets you see up to nine images at a time, allowing you to quickly navigate to a specific image.

1. In Playback mode, press OK to display the Playback menu, then press OK again to select the View Thumbnails option.
2. Scroll through the thumbnail images using the ▲ ▼ buttons. The current image is highlighted with a yellow border. Information about the selected image appears at the bottom of the screen, such as whether it has been selected for HP Instant Share, whether it is a video clip, or whether an audio clip is attached to a still image.

3. Press the OK button to display the currently selected image or video clip.

Rotating images

NOTE This option works only with still images, not video clips.

1 In Playback mode, select the image you want, then press OK to display the Playback menu.
2 Select the Rotate option and press OK. The image you were viewing in Playback is automatically rotated 90 degrees clockwise.

3 After the image has been rotated, you can rotate it again in either direction using the ▲ ▼ buttons.
4 When you are ready to save the rotated image, press the OK button. The camera will save the rotated image, and then return to the Playback menu.

NOTE Before you press the OK button in step 4 above, you can cancel the rotation by pressing the Live View or Playback button.

Deleting images

1 In Playback mode, select the image you want, then press OK to display the Playback menu.

2 Select the Delete option and press OK.

3 In the Delete sub-menu, use the ▲ ▼ buttons to highlight the option you want, and then press OK. These options include:

- Cancel—Returns to the Playback menu without deleting anything.
- This Image—Deletes the currently displayed image or video clip, then returns to the Playback menu.
- All Images in Memory (on Card)—Deletes all of the images and video clips from internal memory or the memory card, then displays a screen verifying that there are no images left in memory.
- Format Memory (Card)—Deletes all of the images, video clips, and files from internal memory or the memory card, and then formats the internal memory or memory card. A screen appears verifying that there are no images left in memory.

NOTE Periodic formatting of the internal memory or memory card will keep it clean of file remnants that may cause the camera to lock up, save images slowly, or corrupt images.

Recording and deleting audio clips

NOTE This option works only with still images, not video clips.

After taking a still picture, you can go back later and add an audio clip to it. If an image already contains an audio clip, you can record a new clip or delete the current audio clip.

1. In Playback mode, select the image you want, then press OK to display the Playback menu.
2. Select the Record Audio option.
3. If the image does not already have an audio clip, recording starts immediately. Recording will continue until you press OK again or the memory fills up (whichever comes first). A microphone icon ( ) and an elapsed time counter appear in the middle of the Image Display during recording.

If the current image already has an audio clip, the Record Audio menu option will take you to a sub-menu that allows you to keep the current audio clip, record a new clip, or delete the current clip.

Magnifying images

NOTE This option works only with still images, not video clips.

You can use this option to see a close-up of the image that is being shown in Playback mode. This option does not permanently alter the image in the camera.

1. In Playback mode, select the image you want, then press OK to display the Playback menu.
2. Select the Magnify option. This magnifies the current image to three times its size.
3. Scroll up or down in the image by using the ▲▼ buttons.
4. To scroll left and right, press OK to display the Magnify menu. Highlight the menu option called Scroll Left/Right, then press OK. Now you can use the ▲▼ buttons to scroll left and right in the image.

5. To magnify the image to six times its size, press OK to display the Magnify menu, then select Magnify More.
6. To return to Playback mode, select the Exit Magnify option, or press the Playback button.

Setup

Selecting this Playback menu option displays the Setup menu. For information about the Setup menu, see Chapter 6: Using the setup menu on page 67.

Chapter 4: Using hp instant share

This camera has an exciting feature called HP Instant Share. This feature lets you select images in the camera to be automatically sent to a variety of destinations the next time you connect the camera to your computer or to certain HP printers.

For example, right from the back of the camera you can select images that you want to have printed, then connect the camera to the computer or printer, and the selected images will be printed automatically.

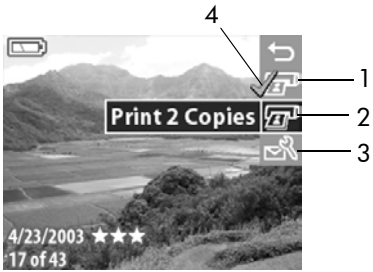
As another example, you can select images in the camera to be automatically sent to e-mail addresses (including group lists), online albums, and a photo finishing service the next time you connect the camera to your computer.

When you press the HP Instant Share (Share) button on the camera, the most recently taken or viewed image appears on the Image Display, along with any print or other destinations that have been selected for the image. You can use the ▲ ▼ buttons to scroll through the images to see destinations for the other images in the camera.

Visit www.hp.com/go/instantshare to see HP Instant Share in action.

Using the share menu

Pressing the Share /✉ button causes the Share menu to appear in the Image Display. The following table describes each of the Share menu options.



#	Icon	Description
1		Print 1 Copy of current image when connected to a computer or printer. By default, the picture is printed 10 by 15 cm (4 by 6 inches).
2		Print 2 Copies of current image when connected to a computer or printer.
3		Customize this Menu... lets you add e-mail addresses and other destinations (such as Order Prints and Upload to HP Photo website) to the Share menu. See Adding destinations to the share menu on the camera on page 56.
4	✓	Check mark indicates the destination has been selected for the currently displayed image. (You can select more than one destination per image.)

Using hp instant share to print pictures

1 Press the Playback ▶ button to display the images in your camera, then use the ▲ ▼ buttons to scroll to an image you want to print.

NOTE You cannot select video clips for printing.

2 Press the Share ⎙/✉ button to activate the Share menu, and then use the ▲ ▼ buttons to scroll to the print option you want.

3 Press OK to select the print option, and a ✓ appears over that print option. To un-select a print option, simply press OK again.

NOTE You can select both the Print 1 Copy and the Print 2 Copies print options for an image so that 3 copies of the image will be printed when connected to a computer or printer.

4 To select another image for printing, go back to step 1. When you are finished selecting all the images you want to print, simply press the Playback ▶ button or select ⮌ EXIT SHARE MENU.

5 The next time you connect the camera to your computer or a compatible printer, the images you selected will be automatically printed. See Chapter 5: Unloading, printing, and displaying images on page 61 for information about connecting the camera to a computer or printer.

NOTE The Share menu creates a standard Digital Print Order Format (DPOF) file for print options.

Using hp instant share to send images to destinations

Using HP Instant Share to send images in your camera to various destinations involves three steps:

1. Adding destinations (e-mail addresses, online albums, a photo finishing service, etc.) to the camera's Share menu (using your computer and the camera together).
2. Selecting HP Instant Share destinations for images (using the Share menu on the camera).
3. Connecting the camera to your computer to send the images you selected. Your computer must have access to the Internet to complete this step.

Adding destinations to the share menu on the camera

NOTE You will need an Internet connection to complete this procedure on a Windows computer.

1. Turn on the camera, and then press the Share button.
2. Highlight the Customize this Menu... option and press the OK button. A message on the Image Display appears asking you to connect the camera to your computer.

NOTE If your computer is running Windows XP, when you connect the camera to your computer in the next step, a dialog box will display that requests you to Select the program to launch for this action. Simply click on Cancel to close this dialog box.

3. Connect the camera to your computer by using the USB cable or the optional HP 8886 camera dock. This activates the Camera Share Menu Setup Wizard.

4 From the first window of the Wizard on the computer, click on Retrieve from Camera.

5 In the screen called Modify Share Menu:

- On Macintosh, click on the Add... button.
- On Windows, check to see that HP Instant Share E-mail is visible above the Add... button, then click on the Add... button.

6 If you are using a:

- Macintosh computer, add the e-mail addresses you want. Then skip to step 8.
- Windows computer, you will be asked to sign in to HP's Passport program. HP Passport allows you to create a secure account for the photos you share using HP Instant Share services. The first time you see this screen, you will need to register as a new user. Follow the instructions on the screen to register.

7 Once you have successfully registered, sign in to HP Passport, and then the HP Instant Share E-mail Setup screen will appear. Here, you can either enter individual e-mail addresses or create group distribution lists, and specify how you want them to appear in the camera's Share menu. You can also enter a subject and message to go with all e-mails that will be sent to each e-mail address or distribution list. After completing the form, click Next. In the confirmation screen that appears, click Finish.

8 The names you specified for your newly added e-mail destinations or group distribution lists should now appear in the Modify Share Menu screen (in the Current Share Menu section). To add additional e-mail addresses or distribution lists to the camera Share menu, repeat steps 5-7 on Windows, or steps 5-6 on Macintosh. If you are using a Windows computer, you will not need to sign in to the HP Passport program again.

NOTE You can have a maximum of 32 Share destinations (such as individual e-mail addresses or group distribution lists) in the Share menu on your camera in addition to Print 1 Copy and Print 2 Copies.

9 When you have finished adding Share destinations, click on either Save to Camera on a Windows computer or Next on a Macintosh computer to add the new addresses or distribution lists to the camera's Share menu. When the computer confirms that the addresses or lists were saved to your camera, disconnect the camera from the computer, and press the Share button to view the new destinations in the Share menu.

10 You are now ready to select images on the camera to be e-mailed. See the next section for how to do this.

Selecting hp instant share destinations for images

You can select any number of HP Instant Share destinations for each still image in your camera. For example, you can select a specific image to go to 10 e-mail destinations (including group lists), an online album, and to a professional-quality photo finisher. However, you cannot select HP Instant Share destinations for video clips.

1. Press the Playback ▶ button to display the images in your camera, then use the ▲ ▼ buttons to scroll to an image you want.
2. Press the Share /✉ button to activate the Share menu, and then use the ▲ ▼ buttons to scroll to the HP Instant Share destination that you want to select.
3. Press OK to select the destination, and a ✓ appears next to that destination. (You can select more than one destination or print option for an image.) To un-select a destination, simply press OK again.
4. To select one or more destinations for another image, go back to step 1. When you are finished selecting HP Instant Share destinations, press the Playback ▶ button or select ↩ EXIT SHARE MENU.
5. The next time you connect the camera to your computer, the images you selected for e-mail will be sent to their respective destinations. See Chapter 5: Unloading, printing, and displaying images on page 61 for information about connecting the camera to a computer.

How hp instant share e-mails images

The way images are e-mailed via HP Instant Share works differently on Windows and Macintosh computers.

Windows	Images are not e-mailed as attachments. Rather, a message is sent to each e-mail address that you selected in the Share menu. The message contains thumbnail images of the pictures you selected for that address, as well as a link to a web page where the recipient can view the images. From that web page, the recipient can do things like reply to you, print the images, save images to their computer, forward images, and more. This makes it easy for people who use different e-mail programs to be able to see your images without the difficulty of dealing with e-mail attachments.
Macintosh	Images are e-mailed directly to recipients using the default e-mail program on your computer.

Chapter 5: Unloading, printing, and displaying images

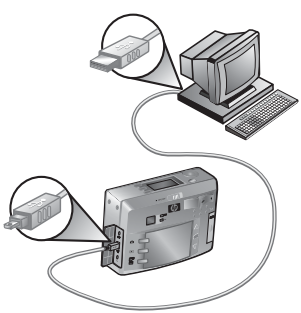
Once you have taken pictures, you can unload them from your camera to a computer, print them directly to a printer, or display them on a television.

Unloading to a computer

NOTE If you are using the HP 8886 camera dock to do this task, see the HP 8886 Camera Dock User's Manual.

NOTE If you are using a Macintosh computer, you must first change the USB configuration setting to Disk Drive in the Setup menu. See USB configuration on page 69.

1. Your camera came with a special USB cable for connecting the camera to a computer. Connect the larger end of that USB cable to the computer.
2. Open the rubber door on the side of the camera and connect the small end of the USB cable to the USB connector on the camera.



NOTE If your computer is running Windows XP, when you turn on the camera in the next step, a dialog box may appear that requests you to Select the program to launch for this action. Simply click on Cancel to close this dialog box.

3 Turn on the camera. The HP Image Unload software will launch on your computer. If you have set the software to automatically unload the images in the camera, the images will automatically unload to the computer. Otherwise, in the Welcome screen, click Start Unload. If there were any images in the camera that were selected in the Share menu for printing or HP Instant Share destinations, those actions are started after the images have been unloaded to the computer.

4 When the unload screen on the computer says Finished, your images have been saved and shared. You can now disconnect the camera from the computer.

NOTE To unload images to a computer that does not have the HP Photo & Imaging software installed on it, change the USB Configuration setting to Disk Drive in the Setup menu. See USB configuration on page 69. This allows the camera to appear as another disk drive on the computer so that you can easily copy the image files from the camera to the hard drive of your computer.

NOTE If you used a memory card in your camera, another way to unload images from the card to a computer is to use a memory card reader or one of the memory card slots available in HP Photosmart printers. See the manual for your HP Photosmart printer for instructions on how to do this.

Printing images

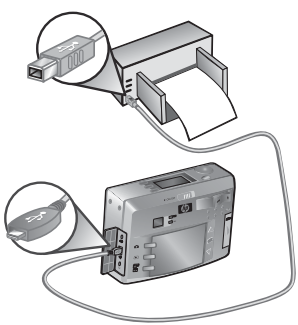
NOTE If you are using the HP 8886 camera dock to do this task, see the HP 8886 Camera Dock User's Manual.

To print images that have been unloaded to the computer, you can use the HP Photo & Imaging software that was shipped with the camera.

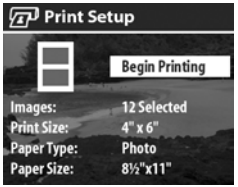
You can also connect the camera directly to any HP Photosmart printer or to any other HP printer with front panel USB ports, then print images selected from the camera Share menu or all images in the camera.

To print directly to an HP Photosmart printer or to any other HP printer with front panel USB ports:

1. Turn on the camera.
2. Check that the printer is turned on and is online. (There should be no blinking lights on the printer or error messages displayed about the printer.) Load paper into the printer, if needed.
3. Your camera came with a special USB cable for connecting the camera directly to a printer. Connect the square end of the USB cable to the printer.
4. Open the rubber door on the side of the camera and connect the small end of the USB cable to the USB connector on the camera.



The Print Setup menu displays on the camera. If you already selected images to print from the camera Share menu, the number of images selected will be shown, as in this example. Otherwise, Images: ALL will be displayed.



5 Adjust the settings in the Print Setup menu by using the ▲ ▼ buttons to highlight a menu option and the OK button to change the setting for each option.

NOTE There is a print preview in the Print Setup screen showing the page layout that will be used for printing images. This print preview updates as you change the settings for the Print Size and Paper Size.

6 Press the OK button to begin printing.

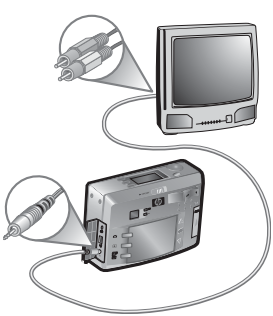
NOTE If you used a memory card in your camera, another way to print images directly from the card is to insert the card into the appropriate memory card slot available in HP Photosmart printers. See the manual for your HP Photosmart printer for instructions on how to do this.

Displaying images on a TV

Images in your camera can easily be displayed as a slideshow on almost any TV (television).

NOTE If you are using the HP 8886 camera dock to do this task, see the HP 8886 Camera Dock User's Manual.

1. To connect the camera directly to a TV, you need an A/V (Audio/Video) cable. The A/V cable is included in the HP 8886 camera dock kit, or may be purchased separately (see Purchasing camera accessories on page 102).
2. Your camera will send either an NTSC or PAL video signal to a TV. The NTSC format is used primarily in North America and Japan, while the PAL format is used primarily in Europe. This setting is done for you when you set the language of the camera. If you want to change the video signal format, change the TV Configuration setting in the Setup menu. See TV configuration on page 70.
3. Your camera will be the source for the TV signal (just like a VCR or a camcorder), so you must set the TV to take video input from an external video source (your camera) instead of the antenna or cable TV. Refer to the TV user's manual for directions on how to do this.
4. Turn on the camera, then connect the A/V cable to the A/V inputs on the TV and to the TV connector on your camera.



The camera starts a slideshow of each image, playing any attached audio clip or video clip, and then fading to the next image. You can also manually scroll through the images by pressing the ▲ ▼ buttons.

NOTE The Image Display on the camera turns off when the camera is connected to a TV. However, you can still use the Playback and Share menus while connected to the TV, since the menus will display on the TV screen.

Chapter 6: Using the setup menu

1 To display the Setup menu, open either the Playback or Capture menu and use the ▲ ▼ buttons to highlight the Setup menu option. Then press the OK button. (For information about these other menus, see Using the playback menu on page 47 and Advanced capture settings on page 37.)

Playback Menu

Capture Menu

2 Use the ▲ ▼ buttons to scroll through the Setup menu options.

3 Press the OK button to select a highlighted option and display its sub-menu.

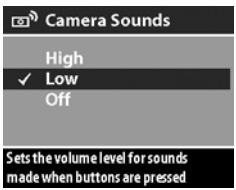
4 Within a sub-menu, use the ▲ ▼ buttons and the OK button to change the setting for the Setup menu option.

5 To exit the Setup menu, highlight the EXIT SETUP MENU option and press the OK button.

Camera sounds

This Setup menu option allows you to set the volume level of the camera sounds, or turn camera sounds off.

Camera sounds are the sounds that the camera makes when you turn it on, press a button, or take a picture. Camera sounds are not the audio sounds recorded with images or video clips.



The default setting is Low.

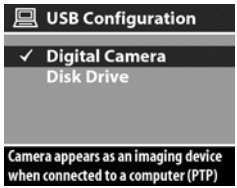
Date & time

This Setup menu option allows you to set the current date and time, as well as the date/time format, for the camera. This is usually done when you first set up the camera, but you may need to re-set the date and time when you are travelling to different time zones, or when the batteries are removed from the camera for more than 10 minutes.

To set the date, time, and date/time format, follow the same procedure used in Setting the date and time on page 19.

USB configuration

This Setup menu option determines how the camera appears when connected to a computer.



- Digital Camera—Causes the computer to recognize the camera as a digital camera using the Picture Transfer Protocol (PTP) standard. This is the default setting on the camera.
- Disk Drive—Causes the computer to recognize the camera as a disk drive using the Mass Storage Device Class (MSDC) standard.

Use this table as a guide for which USB Configuration setting to use with your computer:

HP Photo & Imaging software:	Windows	Macintosh
Installed	Digital Camera	Disk Drive
Not installed	Disk Drive	Digital Camera (OSX systems)

TV configuration

This Setup menu option sets the format of the video signal for displaying camera images on a television (TV) that is connected to the camera with an optional Audio/Video cable or HP 8886 camera dock.

- NTSC—format used primarily in North America and Japan
- PAL—format used primarily in Europe

The default setting depends on the language that you selected when you powered on the camera for the first time.

For more information on connecting the camera to a TV, see either Displaying images on a TV on page 65 when using an optional Audio/Video cable, or the HP 8886 Camera Dock User's Manual when using the camera dock.

Language

This Setup menu option sets the language of the camera interface, including the text in menus and on the Image Display. The default setting is English.

To set the language on the camera, follow the same procedure used in Choosing the language on page 18.

Move images to card

This Setup menu option lets you move images from the camera's internal memory to a memory card. It appears in the Setup menu only if a memory card is installed and internal memory contains at least one image.

If there is room to move all the internal files to the memory card, then this confirmation screen appears. If you select Yes to move images, they are moved to the card, and all moved images are deleted from internal memory.

If only some of the images will fit on the memory card, this screen appears which allows you to move as many images as the card will hold. The moved images will be deleted from internal memory, and the images that could not be moved will be retained in internal memory.

NOTE When a memory card is inserted, only the images on the card can be viewed on the Image Display. To view the images stored in internal memory, remove the memory card.

Chapter 7: Troubleshooting and support

Problems and solutions

NOTE If you still cannot solve your problem after reviewing the troubleshooting information provided in the following table, you can run diagnostic tests on your camera to try to isolate and solve the problem yourself. The diagnostic tests for this digital camera are provided on the following website:
www.hp.com/support

Problem	Possible cause	Solution
The camera does not turn on.	The batteries are functioning incorrectly, are dead, are installed incorrectly, or are missing.	The charge in the batteries can be low or completely drained. Try installing new or recharged batteries. Ensure that the batteries are inserted correctly. Do not use ordinary alkaline batteries. For best results, use photo-lithium batteries or rechargeable NiMH batteries. If you must use alkaline batteries, use high-grade “ultra” or “premium” varieties.

Problem	Possible cause	Solution
The camera does not turn on. (continued)	The HP AC adapter is not connected to the camera, or is not plugged into a power outlet.	Ensure that the HP AC power adapter is: • connected to the power adapter connector of the camera • plugged into a working electrical outlet
	The HP AC power adapter is not functioning correctly.	Ensure that the HP AC adapter is not damaged or defective and is plugged into a working electrical outlet.
	The memory card is defective or contains corrupt images.	Remove the memory card.
I replace the camera batteries frequently.	The NiMH batteries you are using were recharged incorrectly, or have drained on their own because they have not been used lately.	When NiMH batteries are brand new or have not been used in several months, they should be charged and fully drained 3-4 times to reach optimum capacity. Also, NiMH batteries discharge on their own when not in use and when not installed in the camera. So if you have not used them in a week or more, they may benefit from being charged.

Problem	Possible cause	Solution
I replace the camera batteries frequently. (continued)	Extended Image Display use for Live View or video recording, excessive flash use, and excessive zooming consume a lot of battery power.	Minimize the use of Live View and video, especially if using ordinary alkaline batteries. Also use the flash and zoom only when necessary. Use an HP AC power adapter to power the camera when you are using the Image Display for an extended period of time, or use the viewfinder instead of the Image Display whenever possible. Do not use ordinary alkaline batteries. For best results, use photo-lithium batteries or rechargeable NiMH batteries. If you must use alkaline batteries, use high-grade “ultra” or “premium” varieties. (See page 99)
The camera batteries will not charge.	Rechargeable batteries are not inserted.	Install NiMH batteries. Lithium and alkaline batteries cannot be recharged.
	Batteries are already charged.	Battery charging will not start if the batteries were recently charged. Try charging them again after they have drained awhile.

Problem	Possible cause	Solution
The camera batteries will not charge. (continued)	Battery voltage is too low for charging to start.	The camera will not attempt to charge batteries that may be damaged or over-discharged. Remove the batteries from the camera and charge them in an external battery charger, then try them in the camera again. If this does not work, it is likely that one or more of the batteries are bad. Purchase new NiMH batteries and try again.
	The wrong AC power adapter is being used.	Use only the HP AC power adapter approved for use with this camera. See **Purchasing camera accessories** on page 102.
	The batteries are damaged or bad.	NiMH batteries degrade over time and can fail. If the camera detects a problem with the batteries, it will not start charging or will stop charging prematurely. Purchase new batteries.
The Memory/ USB light blinks as if the batteries are being recharged, but there are no batteries installed.	The camera does not recognize that there are no batteries installed.	Do nothing. The blinking is harmless and should stop after 5-30 minutes.

Problem	Possible cause	Solution
The wrong date and/or time is shown.	The batteries died or were removed from the camera for too long.	The date and time will be maintained for about 10 minutes without batteries installed. Reset the date and time by using the Date & Time option in the Setup menu. (See page 68, 68)
The camera does not respond when I press a button.	The camera is turned off or has shut down.	Turn on the camera, or turn it off and then on again.
	The camera is connected to a computer.	Most of the camera buttons, except for the ▶ ON/OFF switch, do not respond when the camera is connected to a computer. If they respond, it is only to turn the Image Display on if it is off, or, in some cases, turn the Image Display off if it is on.
	The batteries are drained.	Replace or recharge the batteries.
	Images in the memory card may be corrupted.	Remove the memory card.
	The camera has stopped operating.	Reset the camera by holding the ▶ ON/OFF switch in the ON position until the Image Display turns on.

Problem	Possible cause	Solution
A long delay occurs between pressing the Shutter button and the camera taking a picture.	The camera needs time to lock focus and exposure.	Use Focus Lock. (See page 23.)
	The camera is taking a long exposure.	Use a tripod or the flash.
	The camera is set to Red-eye Reduction.	It will take longer to take a picture with Red-eye Reduction set to On. The shutter is delayed because of the additional flash. In turn, make sure your subjects wait for the second flash.
The camera does not take a picture when I press the Shutter button.	You did not press the Shutter button hard enough.	Press the Shutter button all the way down.
	The memory storage is full (either internal or card).	Unload images from the camera to your computer, then delete all images from internal memory or the memory card. Move images from internal memory to a memory card to free up internal memory, or replace the card with a new one.
	The memory card is locked.	Switch the locking tab on the memory card to the unlocked position.
	The flash is recharging.	Wait until the flash has recharged before taking another picture.

Problem	Possible cause	Solution
The camera does not take a picture when I press the Shutter button. (continued)	The camera is still saving the last picture you took.	Wait a few seconds for the camera to finish processing the image, and then press the Shutter button.
	Images in the memory (internal or card) may be corrupted.	Format the memory. (See page 50)
My image is blurry.	Your subject was too close to the camera lens.	Use Macro mode for close-up shots. Do not try to get closer than the camera's minimum focus range (See Using macro mode on page 36)
	You moved the camera while you took the picture.	Hold the camera steady as you press the Shutter button or use a tripod.
	The light is low and the flash is set to Flash Off.	In dim light, the camera requires a longer exposure. Use a tripod to hold the camera steady, improve lighting conditions, or the flash To Flash On (see page 30).
	The camera focused on the wrong thing, or was unable to focus.	Use Focus Lock. (See page 23.)

Problem	Possible cause	Solution
My image is too bright.	The flash provided too much light.	Use the Flash Off setting (see Using the flash on page 30).
	You were too close to the subject to use the flash.	Move back from the subject or set the flash to Flash Off and take the picture again.
	A natural or artificial source other than the flash provided too much light.	Try taking the picture from a different angle. Avoid pointing the camera directly toward a bright light or reflective surface on a sunny day. Use the Flash On setting (see page 30) or adjust the Exposure Compensation (see page 38).
	The scene had many dark objects, such as a black dog on a black couch.	Decrease the Exposure Compensation (see page 38) so the dark objects in the scene will not look “washed-out”.

Problem	Possible cause	Solution
My image is too dark.	There was not enough light.	Wait for natural lighting conditions to improve, add indirect lighting, or adjust the Exposure Compensation (see page 38).
	The flash was on, but the subject was too far away.	Make sure your subject is within the flash working distance (see Appendix B: Specifications on page 105) or try turning flash off (will require a longer exposure).
	A light shone behind the subject.	Use the Flash On setting (see page 30) to brighten the subject. Or adjust the Exposure Compensation (see page 38).
	Your finger blocked the flash.	Be sure to move your fingers away from the flash when you take a picture.
	The scene had many light-colored objects, such as a white dog in snow.	Increase the Exposure Compensation (see page 38) so the light-colored objects in the scene will not look “muddy.”

Error messages on the camera

Message	Possible cause	Solution
BATTERIES DEPLETED Camera is shutting down	Battery power is too low to continue operation.	Replace or recharge batteries, or use an optional HP AC adapter.
Batteries are too low for Live View	Battery power is too low to use Live View on the Image Display.	Take pictures with the optical viewfinder instead of the Image Display. Replace or recharge batteries, or use an optional HP AC adapter.
Batteries are too low to record a video clip	Battery power is too low and the camera will shut down soon.	Either recharge or replace the batteries.
Batteries cannot be charged	Either an error occurred during charging, an AC power disruption occurred during charging, the wrong AC power adapter is being used, batteries are defective, or no batteries are installed in the camera.	Retry charging the batteries a couple of times. If that fails, purchase new batteries and try again.

Message	Possible cause	Solution
Unsupported card	The card in the memory slot is not a memory card or is not a supported memory card.	Ensure that the memory card is the proper type for your camera. (See Appendix B: Specifications on page 105.)
Card is wrong format	The card is an unsupported format, such as FAT32.	Press OK (this should display the Format Card screen) or format the memory card by using the Format Card option in the Delete menu. This will delete all data on the card.
The card requires formatting	The memory card needs to be formatted.	Press OK (this should display the Format Card screen) or format the memory card by using the Format Card option in the Delete menu. This will delete all data on the card.
Card is unreadable	The memory card is not a supported card or the card is corrupted.	Ensure that the memory card is the proper type for your camera. (See Storage on page 105.) If it is the proper type, it is probably corrupted. Replace the memory card.
Unable to format	The memory card is damaged or unsupported	Replace the memory card.

Message	Possible cause	Solution
The card is locked	The locking tab on the side of the memory card is in the locked position.	Switch the locking tab to the unlocked position or insert a new card.
Insufficient memory on the card	Not enough room to copy any files from internal memory to the card.	Unload images from the camera to your computer, then delete all images on the memory card. Or replace the card with a new one.
Error saving video	Memory card was removed before the camera was finished writing to the card.	Always wait until the Memory/USB light stops blinking before removing the card from the camera.
1st screen: No card in camera *2nd screen:* Error saving image Please reinsert the card	Memory card was removed before the camera was finished writing to the card.	Reinsert the memory card. Always wait until the Memory/USB light stops blinking before removing the card from the camera.
Invalid date	An attempt was made to enter an invalid date (such as 2/31/2003).	Press OK to clear the message, and then enter a valid date.

Message	Possible cause	Solution
Unsupported image file	You tried to magnify, rotate, to print an image that was taken with another camera.	Press OK to clear the message. You cannot do those operations on files that were not created by your camera.
Insufficient space in memory (on card) to complete request.	Insufficient room in internal memory or on the memory card to rotate an image.	Free up space on the card by deleting some images, or perform the rotation using computer software.
Communication error	Camera received an error code from the HP software on the computer.	Disconnect the USB cable (or lift the camera out of the HP camera dock), then re-connect and try again.
Charging Flash...	The camera is recharging the flash.	It takes longer to charge the flash when the batteries are low. If you see this message a lot, you may need to replace or recharge the batteries.
Card full or Memory full	Insufficient room in internal memory or on the memory card to save more images.	Unload images from the camera to your computer, then delete all images from the memory card or internal memory. Or put a new memory card in the camera.

Message	Possible cause	Solution
No images in memory or No images on card	There are no images or video clips in the camera and you are trying to review them.	Take some pictures or video clips.
Cannot display image	Possibly comes from copying images to the memory card from a computer, or a corrupted image caused by the camera not shutting down properly.	Use the HP software to edit the images copied on the memory card. Also, do not remove batteries or the memory card when the camera is turned on.
Unable to focus	The subject did not provide enough contrast for the camera to focus properly.	Use Focus Lock before taking the picture (see page 23).
Shaking hand icon	Camera is preparing to take a picture.	Camera must be held very still due to long exposure.
Focus too far	The focus distance is beyond where the camera can focus.	Make sure the camera is not set to Macro focus.

Message	Possible cause	Solution
Focus too close	The focus distance is closer than the camera can focus.	Set the camera to Macro focus, or if set to Macro focus, move further away from the subject. See Using macro mode on page 36.
Unknown USB device	The camera is connected to a USB device that it does not recognize.	Make sure that the camera is connected to a supported printer or computer.
Unable to communicate with printer	There is no connection between the camera and printer.	Make sure the cable is connected between the camera or HP 8886 camera dock and the printer. If that does not work, turn off the camera and disconnect it. Turn the printer off and then on again. Re-connect the camera and turn it on.
	A supported printer is either turned off or not connected to the camera.	Make sure the camera is connected to a supported printer and that the printer is turned on.
Selected print size is larger than selected paper size	Print size is larger than paper size in the Print Setup menu.	Change either print size or paper size in the Print Setup menu.

Message	Possible cause	Solution
Unsupported printer	The printer is an unsupported device.	Connect the camera to a supported printer, such as an HP Photosmart printer or another HP printer with front panel USB ports. Or connect the camera to a computer and print from there instead.
Disengage photo tray, or select smaller paper size	The selected paper size cannot be used with the printer photo tray.	Disengage the printer photo tray, or change the paper size.
Printer top cover is open	The printer is open.	Close the top cover of the printer.
Incorrect or missing print cartridge	The printer cartridge is the incorrect model or is missing.	Install a new printer cartridge, turn the printer off, then turn it back on.
Printer has a paper jam	There is a paper jam.	Turn off the printer. Clear the paper jam, and then turn on the printer.
Printer is out of paper	Your printer is out of paper.	Load paper into the printer, and then press the OK or Continue button on the printer. To cancel the print job, press the OK button on the camera.

Message	Possible cause	Solution
Printing canceled	The print job has been canceled.	Press the OK button on the camera. Complete the print request again.
Any error code numbers that appear	The camera may have a hardware or firmware problem.	Turn the camera off and then on again. If the problem persists, call HP Support (see page 92).

Error messages on the computer

Message	Possible cause	Solution
Connection between the imaging device and computer failed	The camera might be connected to a computer through a USB hub.	Try connecting the camera directly to the computer, or disconnect other devices attached to the USB hub.
The software cannot retrieve the Share Menu information from your camera	The computer needs to write files to memory during HP Instant Share setup, but the memory is either full, or the memory card is locked.	Make room on the internal memory or memory card. If you are using an SD memory card, unlock it by switching the locking tab on the card to the unlocked position.
Computer cannot find the connected camera	The camera is turned off.	Turn on the camera.
	The camera is not working correctly.	Try connecting the camera directly to an HP Photosmart printer or an HP printer with front panel USB ports, and print an image. This will verify that the image, memory card, USB connection, and the USB cable are functioning correctly, or not.
	The cable is not connected correctly.	Make sure that the cable is firmly connected to the computer and camera.

Message	Possible cause	Solution
Computer cannot find the connected camera (continued)	The camera is set to the Digital Camera setting in the USB Configuration sub-menu of the Setup menu. But the computer cannot recognize the camera as a digital camera.	Change the USB Configuration setting to Disk Drive in the Setup menu. (See **USB configuration** on page 69.) This allows the camera to appear as another disk drive on the computer so that you can easily copy the image files from the camera to the hard drive of your computer.
	The camera is connected to the computer through a USB hub, and your USB hub is not compatible with the camera.	Connect the camera directly to a USB port on the computer.
	You are using the HP 8886 camera dock and forgot to press the **Save/ Print** button.	Press the Save/Print button on the dock.
	The memory card is locked (SD cards only)	Switch the locking tab on the memory card to the unlocked position.
	The USB connection failed.	Reboot the computer.

Getting assistance

This section contains support information for your digital camera, including support website information, an explanation of the support process, and support phone numbers.

HP accessibility website

Customers with disabilities can get help by visiting www.hp.com/hpinfo/community/accessibility/prodserv.

HP photosmart website

Visit www.photosmart.hp.com or www.hp.com/photosmart for the following information:

- Tips on using your camera more effectively and creatively
- HP digital camera driver updates and software
- Register your product
- Subscribe to newsletters, driver and software updates, and support alerts

Support process

The HP support process works most effectively if you perform the following steps in the order specified:

1. Review the troubleshooting section of this User's Manual, which starts on page 73.
2. Access the HP Consumer Support Website for support. If you have access to the Internet, you can obtain a wide range of information about your digital camera. Visit the HP website for product help, drivers, and software updates at www.hp.com/support.

Support is available in the following languages: Dutch, English, French, German, Italian, Portuguese, Spanish, Swedish, Traditional Chinese, Simplified Chinese, Japanese, Korean. (Danish, Finnish, and Norwegian support information is available in English only.)

3. Access HP e-support. If you have access to the Internet, connect with HP via e-mail by going to: www.hp.com/support. You will receive a personal reply from an HP Consumer Support technician. E-mail support is available in the languages listed at that website.
4. Contact your local HP dealer. If your digital camera has a hardware failure, take it to your local HP dealer for a solution. Service is free during your digital camera's limited warranty period. After the warranty period, the dealer will quote a service charge.
5. Contact HP Consumer Support for support by phone. Please consult the following website to check the details and conditions of phone support in your country/region: www.hp.com/support. As a part of HP's continuing efforts to improve phone support information services, we advise you to check the HP website on a regular basis for new information regarding service features and delivery. If you cannot solve the problem using the above options, call HP while you are in front of your computer and digital camera. For faster service, please be prepared to provide the following information:
   - The digital camera's model number (located on the front of the camera)
   - The digital camera's serial number (located on the bottom of the camera)
   - The computer's operating system

- The version of the digital camera software (located on the camera's CD label)
- Messages displayed at the time the situation occurred

The applicable conditions for HP phone support are subject to change without notice.

Telephone support is free from the date of purchase for the period specified unless otherwise noted.

Locations	Free Phone Support Period
Africa	30 days
Asia Pacific	1 year
Canada	1 year
Europe	1 year
Latin America	1 year
Middle East	30 days
United States	1 year

Phone support in the United States

Support is available both during and after the warranty period.

Within the period of your warranty, telephone support is provided free of charge. Call (208) 323-2551. If this is a long distance call for you, long distance charges will apply. US phone support is available in both English and Spanish 24 hours a day, 7 days a week (days and hours of support may change without notice).

After the warranty period, call (208) 323-2551. Charges are $25.00 per issue, and are charged to your credit card. If you think your HP product needs service, call HP Consumer Support, which can help determine if service is required.

Phone support in Europe, the Middle East, and Africa

HP Consumer Support phone numbers and policies may change. Visit the following website to check the details and conditions of phone support in your country/region: www.hp.com/support.

Algeria +213 (0)61 56 45 43

Austria +43 (0)820 87 4417

Bahrain +973 800 728

Belgium 070 300 005 (Dutch)
070 300 004 (French)

Czech Republic +42 (0) 2 6130 7310

Denmark +45 70202845

Egypt +20 02 532 5222

Finland +358 (0)203 66 767

France +33 (0) 892 6960 22 (Euro 0.34/min)

Germany +49 (0)180 5652 180 (Euro 0.12/min)

Greece +30 10 60 73 603

Hungary +36 (0) 1 382 1111

Ireland 1890 923902

Israel +972 (0) 9 830 4848

Italy 848 800 871

Luxembourg 900 40 006 (French)
900 40 007 (German)

Morocco +212 224 04747

Netherlands 0900 2020 165 (Euro 0.10/minute)

Norway +47 815 62 070

Poland +48 22 865 98 00

Portugal 808 201 492

Romania +40 1 315 44 42

Russian Federation +7 095 797 3520 (Moscow)
+7 812 346 7997 (St Petersburg)

Saudi Arabia +966 800 897 14440

Slovakia +421 2 6820 8080

South Africa 086 000 1030 (inside RSA)
+27-11 258 9301 (outside RSA)

Spain 902 010 059

Sweden +46 (0) 77 120 4765

Switzerland 0848 672 672 (German, French, Italian—
Peak time 0.08 CHF/Outside peak 0.04 CHF)

Tunisia +216 1 891 222

Turkey +90 216 579 71 71

Ukraine +7 (380 44) 490-3520

United Arab Emirates 800 4910

United Kingdom +44 (0)870 010 4320

Other phone support worldwide

HP Consumer Support phone numbers and policies may change. Visit the following website to check the details and conditions of phone support in your country/region: www.hp.com/support.

Argentina +54 0 810 555 5520

Australia +61 (3) 8877 8000 (or local (03) 8877 8000)

Brazil +55 (11) 3747 7799 (Grande São Paulo)
+55 0800 157751 (outside Grande São Paulo)

Canada +1 905 206 4663 (during the warranty period)
+1 877 621 4722 (after the warranty period)

Central America and the Caribbean +1 800 711 2884

Chile +56 800 22 5547 (Post-sales Business Computing
+56 800 360 999 (Post-sales Home Computing)

China +86 (10) 6564 5959

Colombia +57 9 800 114 726

Guatemala +502 1 800 999 5105

Hong Kong SAR +852 3002 8555

India 1 600 112267 or +91 11 682 6035 (Hindi & English)

Indonesia +62 (21) 350 3408

Japan 0570 000 511 (inside Japan)
+81 3 3335 9800 (outside Japan)

Korea, Republic of +82 (2) 3270 0700 (Seoul)
0 80-999-0700 (outside Seoul)

Malaysia +60 1 800 805 405

Mexico +52 58 9922 (Mexico City)
+52 01 800 472 6684 (outside Mexico City)

New Zealand +64 (9) 356 6640

Peru +51 0 800 10111

Philippines +63 (2) 867 3551

Puerto Rico +1 877 2320 589

Singapore +65 6272 5300

Taiwan +886 0 800 010055

Thailand +66 (2) 661 4000

United States +1 (208) 323-2551

Venezuela +58 0 800 4746 8368

Vietnam +84 (0) 8 823 4530

Appendix A: Batteries and camera accessories

Managing batteries

When the batteries are removed from the camera, the date and time settings are preserved for approximately 10 minutes. If the camera is without batteries for longer than 10 minutes, the clock is set to the last date and time at which the camera was used. You may be prompted to update the date and time.

The following battery levels may be displayed on the Status LCD and Image Display.

Icon	Description
	Batteries have 30-100 percent battery life remaining.
	Batteries have 10-30 percent battery life remaining.
	Batteries have less than 10 percent remaining. Camera will power down soon. Live View is disabled.
	Camera is operating on AC power

The camera uses two AA batteries. Do not use ordinary alkaline batteries. For best results, use photo-lithium or rechargeable NiMH batteries. If you must use alkaline batteries, use high-grade "ultra" or "premium" varieties.

NOTE If you do not intend to use your camera for extended periods of time (more than a month), we strongly recommend that you remove the batteries.

Extending battery life

- Minimize the use of Live View and video, especially when using alkaline batteries.
- Use the viewfinder to frame pictures instead of the Image Display. Leave the Image Display off whenever possible.
- Use zoom only when necessary.
- Use the Auto flash setting rather than Flash On.
- Minimize power cycling. If you expect to average more than one picture every five minutes, leave the camera on rather than turning it off after each shot. This minimizes the number of times the lens has to extend and retract.
- Use an optional HP AC adapter or HP 8886 camera dock when the camera will be on for extended periods of time, or when unloading pictures to your computer, printing, or connecting to the TV.

Rechargeable batteries

Nickel Metal Hydride (NiMH) batteries can be recharged by using a battery charger. NiMH batteries can also be recharged in the camera when the camera is connected to an optional HP AC adapter or HP 8886 camera dock. Batteries are fully recharged via the optional HP AC adapter or camera dock in 15 hours.

Some things to keep in mind when using NiMH batteries are:

- Always recharge both NiMH batteries at the same time. One low-charged battery will reduce the battery life for both batteries in the camera.
- For NiMH batteries to reach optimal capacity and performance, they should first be discharged completely and recharged four separate times.
- NiMH batteries discharge when not in use, whether they are installed in a device (such as in the camera) or not. If they have not been used for more than two weeks, recharge them before using them again.

Power conservation

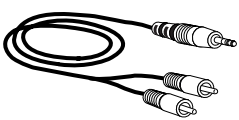
To conserve battery power, the Image Display turns off automatically if there is no button activity for 60 seconds. If no buttons are pressed for 6 minutes, the camera turns off (unless it is printing or connected to a computer or TV).

Purchasing camera accessories

You can purchase additional accessories for your camera from your local retailer or online at www.hpshopping.com. Some accessories for this digital camera are listed below:

- HP Photosmart 8886 camera dock (includes a camera dock, remote control, two rechargeable NiMH batteries, audio/video cable, USB cable, and an AC power adapter):
  - United States and Canada—C8886A #A2L
  - Mexico, Brazil, Chile, Argentina, and Uruguay—C8886A #ABM
  - Korea, Australia, and New Zealand—C8886A #UUF
  - Europe (except for the United Kingdom, see the next option below)—C8886A #AC2
  - United Kingdom and South Africa—C8886A #ABU
- HP Photosmart Digital Camera Deluxe Starter Kit (C8889A for North America, C8884B #UUS for continental Europe, and C8884B #ABU for the United Kingdom). Contents include:
  - Padded camera case
  - Battery recharger
  - 4 rechargeable NiMH batteries
  - DC car adapter for battery recharger
  - 32 MB SD memory card
- HP Photosmart Digital Camera Starter Kit (Y1789B, option #A2L for North America, #UUS for continental Europe, and #ABU for the United Kingdom). Contents include:
  - Padded camera case
  - Battery recharger
  - 4 rechargeable NiMH batteries

- HP Photosmart 3.3V AC power adapter (HP supports only HP AC power adapters and other accessories expressly approved by HP):
  - United States and Canada—C8912 #A2L
  - Korea, Australia, and New Zealand—C8912 #UUF
  - Europe—C8912 #UUS
- Memory card—Secure digital (SD) or MultiMediaCard™ (MMC) 128 MB is the largest memory card tested by HP. Larger sizes of cards have not been tested, but they should work - use at your own risk. This product only supports the use of MMC memory cards that have been verified compliant to the MultiMediaCard™ specification as of January 2000. Compliant MMC memory cards have the MultiMediaCard™ logo on the card. The following memory cards are available from HP:
  - 32 MB SD card—C8895A
  - 64 MB SD card—C8896A
  - 128 MB SD card—C8897A
- HP Photosmart padded camera case (C8905A)
- HP audio/video accessory cable to connect to a television (TV).



NOTE You can also use any Y-adapter audio cable with dual RCA plugs on one end and a 1/8 inch (3.175 mm) mini-stereo jack on the other end. You will also need an adapter plug that accepts a 1/8 inch (3.175 mm) jack and fits into a 3/32 inch (2.38 mm) jack.

Appendix B: Specifications

Feature	Description
Resolution	*Still Pictures:* • 3.34 MP (2140 by 1560 total pixel count) • 3.24 MP (2088 by 1550 effective pixel count) *Video clips:* • 320 x 240 total pixel count
Sensor	Diagonal 6.67X mm (1/2.7-inch, 4:3 format) CCD
Color depth	30-bit (10 bits by 3 colors)
Storage	• 16 MB internal Flash memory • Slot for memory card; Secure Digital (SD) or MultiMediaCard™ (MMC) memory card supported (see page 103) Number of images that can be saved in memory (internal or card) depends on the image quality setting (see page 31)
Lens	*Focal length:* • Wide—5.8 mm—17.4 mm • Telephoto—17.4 mm • 35 mm equivalent approximately 38 mm—114 mm) *F-Number:* • Wide—f/2.6 to f/4.9 • Telephoto—f/5.0 to f/9.0
Viewfinder	Zooming optical viewfinder

Feature	Description
Zoom	3x optical, 5x digital zoom • Wide—38 mm • Telephoto—114 mm
Focus	TTL auto focus. *Focus settings:* • Normal (default)—auto focus range of 0.4 m (15.75 in) to infinity • Macro—auto focus range of 0.1 to 0.5 m (4 to 19.7 in), zoom range of 1x to 5x
Shutter speed	1/1500 to 1/3 seconds
Tripod mount	Yes
Built-in flash	1 to 6 second recharge
Flash working distance	3.0 m (9.8 ft) (guide number 7.8) at wide zoom setting
External flash	No
Flash settings	Auto (default), Auto with Red-eye Reduction, Flash On, Night with Red-eye Reduction, Flash Off
Image Display	1.5-inch LED backlit, TFT LCD with 61,380 pixels
Status LCD	Flash settings, AC/Battery, Memory Card, quality setting, remaining image count, video timer, video capture, audio capture, Self-Timer, Burst, Macro, Action, Landscape, Portrait, Aperture setting

Feature	Description
Image capture modes	• Still (default) • Self-Timer—10 second delay standard (both still and video) • Burst—0.9 frames per second, maximum of 6 images • Video—19 frames per second streaming to memory, maximum length limited only by available memory
Audio capture	• Still pictures—Audio can be captured with each still picture by holding down **Shutter** button or added later (in the **Playback** menu), maximum length limited only by available memory • Video—Audio captured automatically with video
Exposure Mode settings	Auto (default), Action, Landscape, Portrait, Aperture Priority (F/2.6 and F/4.9)
Exposure Compensation	Can be set manually from -2.0 to +2.0 EV (Exposure Value) in 0.5 EV increments
White Balance settings	Auto (default), Sun, Shade, Tungsten, Fluorescent
AE Metering settings	Average, Center-Weighted (default), Spot
ISO Speed settings	Auto (default), manually selectable100, 200, 400
Color settings	Full Color (default)
Quality settings	★★★ — Best ★★ — Better (default) ★ — Good
Saturation	Low, Medium (default), High
Sharpness	Low, Medium (default), High
Contrast	Not adjustable

Feature	Description
Playback magnification	Yes, approximately 3x and 6x
Compression format	• JPEG (EXIF) for still images • AVI for video clips
Interfaces	• USB to a computer or HP Photosmart, some HP DeskJet, and some HP All-in-One multi-function printers • Audio/Video out to TV • DC IN 3.3Vdc @ 2500mAs • HP 8886 camera dock
Standards	• PTP (15740) • MSDC transfer • NTSC/PAL • JPEG • AVI • DPOF 1.1 • EXIF 2.2 • DCF 1.0
External Body Dimensions	105 mm (L) by 45 mm (W) by 70 mm (H) 4.1 in (L) by 1.8 in (W) by 2.8 in (H)
Weight	240 grams (8.8 ounces) without batteries
Temperature range	*Operational:* • 5° C to 45° C (41° F to 113° F) • 15% to 85% relative humidity *Storage:* • -30° C to 65° C (-22° F to 149° F) • 15% to 90% relative humidity

Feature	Description

Power	The camera has a maximum steady state power consumption of 2.64 Watts (800mA @ 3.3Vdc).
	
	Power sources include:
	
	• 2 AA batteries (2 non-rechargeable AA batteries included). Acceptable batteries include photo-lithium, "ultra" or "premium" grade high energy alkaline, or rechargeable NiMH. NiMH batteries can be recharged in the camera using the optional HP AC adapter or HP 8886 camera dock.
	• Optional HP AC adapter (Input: 100-240Vac; Output: 3.3-3.7Vdc @ 2500mA).
	  ◦ United States and Canada—C8912 #A2L
	  ◦ Europe—C8912 #UUS
	  ◦ Korea, Australia, and New Zealand—C8912 #UUF
	• Optional HP 8886 camera dock (different product numbers for each area - see **Purchasing camera accessories** on page 102).
	• DC car adapter
	
	Slow trickle recharging in camera with optional HP AC adapter or HP 8886 camera dock (100% in 15 hours).
	
	Automatic advanced power management.

Warranty	HP 1 year exchange warranty

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